

AMENDMENTS TO THE CLAIMS:

Please amend the claims as follows:

1. (Currently Amended) An apparatus for scrubbing acid gas from a gas stream comprising:
 - (a) a closed reaction vessel for containing a treatment fluid comprising aqueous and gaseous ammonia, said vessel having at least one reverse weir dividing the vessel into at least two chambers and having a gas inlet in one chamber and a gas outlet in another chamber;
 - (b) said at least one reverse weir allowing ~~[[fluid]]~~ **gas** communication between the at least two chambers below the at least one reverse weir, but not above the at least one reverse weir; and
 - (c) a source of solid iron within the vessel wherein said iron source may be in contact with either of or both the aqueous and gas phases of the treatment fluid.
2. (Original) The apparatus of claim 1 wherein the vessel comprises low carbon steel and wherein the source of solid iron comprises an inner surface of the vessel.
3. (Previously presented) The apparatus of claim 1 wherein the vessel is a horizontally elongate cylinder and the reverse weir is transverse and substantially vertical.
4. (Original) The apparatus of claim 1 further comprising a tower baffle system associated with the gas outlet wherein the tower baffle system comprises an elongate outlet tower and a plurality of baffles which each partially extends

across the outlet tower, diverting the gas stream along a circuitous path within the outlet tower.

5. (Original) The apparatus of claim 4 wherein the tower baffle system comprises uncoated low carbon steel.
6. (Original) The apparatus of claim 4 further comprising baffle flexing means.
7. (Original) The apparatus of claim 6 wherein the baffle flexing means comprises a float and a push rod connected to the float and to at least one baffle such that vertical movement of the float causes the at least one baffle to move or flex.
8. (Original) The apparatus of claim 1 further comprising a liquid re-circulation system comprising a pump, means for powering the pump and a sprinkler bar wherein the pump may draw liquid from the bottom of the vessel and distribute the liquid through the sprinkler bar which is disposed at or near the top of the vessel.
9. (Original) The apparatus of claim 8 wherein the sprinkler bar sprays the liquid onto the inner surface of the vessel and/or through the gas phase.
10. (Original) The apparatus of claim 1 wherein the vessel further comprises a first weir defining an inlet chamber for containing some liquid treatment fluid, a downcomer for introducing the gas stream into the liquid treatment fluid in the inlet chamber, and at least two reverse weirs separating the remainder of the vessel into three chambers downstream from the inlet chamber.

11. (Original) The apparatus of claim 1 further comprising a condenser connected upstream of the gas inlet for removing condensable hydrocarbon vapours from the gas stream before the gas stream enters the vessel.

Claims 12-20 (Cancelled)

Claims 21-29 (Previously Cancelled).